



CLEAN FUEL USA

Tomorrow's Fuels Today

Sales & Marketing

Alternative Fuel & Biofuel Dispensing Concepts

Georgetown, Texas

www.cleanfuelusa.com

BioFuel Dispensing Equipment

- Dispensers and components are purposely designed and built for: E85 and/or Biodiesel blends greater than B-20
- Piping and material selection for all fittings, submersible pumps, meters, seals, and components are purposely build into the fuel dispenser system from tank to nozzle for alcohol and/or B-100 fuels

Regulatory & Design Costs

- **Rigid standards govern fuel dispensing equipment**
 - NIST- National Weights & Measures assures metro-logic integrity
 - FCC- Governs electronic emissions
 - NFPA- Fire safety regulations for explosive atmospheres
 - ADA- Americans w/ Disabilities Act mandates access to operable controls
 - CARB- Cal. Air Resources Board certifies vapor recovery equipment
 - UL- Industry recognized product safety standard
- **UL 87 defines dispenser design**
 - All retail/commercial equipment is UL approved
 - Standard equipment compatible to 15% ethanol
 - E85 & B-100 equipment compatible to 100% bio-fuel
 - UL has not published a standard for E85 or B-100
 - Cited lack of test protocol/definition for compatibility
 - Little market demand has kept it off front burner

JSC/NASA E85 Skid Package



Sparks, Nevada International Airport



Kennedy Space Center/NASA



Wayne Dresser Vista Series E85 Dispenser

CleanFUEL USA Equipment

CFUSA is the only
authorized Up-
Fitter for Wayne
Dresser and
Gilbarco
Alternative and
BioFuel
Dispensers.



Way of the Future...



PROPANE
EXCEPTIONAL ENERGY™

E85
85% Ethanol

CFT

Provides BioFuel Flexibility and Choices

- Ethanol Blends...
- E10
- E-85
- Bio-diesel blends...
- B20
- B100



Equipment Standards, Fuel Specification and Vapor Recovery Roadmap

- Working with ARB to create CA E85 and Biodiesel guidelines for dispensing facilities equipment, vapor recovery, and Fuel Standards
- National Type Evaluation Program (NTEP) Weights and Measures Approvals March-April 2006
- Underwriters Laboratories Inc. (UL Rated) Components and Systems Approvals March-April 2006
- National Fire Protection Association (NFPA Standards)

Equipment Certification Projects

- U.S DOE Lawrence Livermore National Laboratory; *April 2006*
 - Underground Storage Tank (UST) Retail Style Facility Application
- Caltrans / GM / Chevron Project; *May 2006*
 - Aboveground Storage Tank (AST) Fleet Application with card reader in Dispenser
- USMC Camp Pendleton; *June 2006*
 - Aboveground Tank (AST) with stand alone Fuel Master Card Lock System



www.E85Fuel.com

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New Website For 2007: **www.Cleanfuelusa.com**